**WHAT WILL I LEARN?**

**Structure & Properties of Matter**

**I will be able to recognize that all living & nonliving things are composed of matter (particles) having characteristic properties that distinguish one substance from another.**

**I will be able to explain what atoms are and how they can combine to make new substances.**

**I will be able to explain how matter is conserved even when it changes form.**

**I will be able to explain the difference between mass and weight.**

**I will be able to explain with concrete objects and mathematical formulas how the relationship of mass and volume expresses density.**

**I will be able to explain how temperature and the state of matter depend on the energy level of the atoms or molecules.**

**I will be able to identify and interpret indicators of physical and chemical changes.**

**WHAT WILL I LEARN?**

**Circulatory and Respiratory Systems**

**I will be able to state the hierarchy of structure from smallest cells to tissues, organs, organ systems, and whole organisms.**

**I will be able to predict how changing a part of the system will affect other parts of that system and the entire system.**

**I will be able to demonstrate an understanding of the structures and interrelationship of the lungs and heart orally and in writing.**

**I will be able to trace the flow of blood through blood vessels.**

**I will be able to explain the role of CO2 and O2 in cellular respiration.**

**I will be able to describe how health can be compromised by an unhealthy lifestyle.**

**WHAT WILL I LEARN?**

**Rocky Shore Ecology**

**I will be able to identify biotic and abiotic factors within an ecosystem.**

**I will be able to explain how changes to those factors will affect the plants and animals.**

**I will be able to analyze a food chain (producers, consumers, decomposers), recognizing that energy is flowing through the system.**

**I will be able to identify common species of the NH rocky shore.**

**I will be able to describe ways that organisms are adapted to the rocky shore environment, recognizing that adaptations occur over many generations.**